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ROTARY SEAL MECHANISM OF ROLL NECK PART

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INVENTOR(s): UEDA SOUICHIROU
 EDANE SATOSHI
APPLICANT(s): MUTSUBISHI RUBBER KK
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ABSTRACT

PROBLEM TO BE SOLVED: To nullify wasteful man-hours and time for replacement, rearrangement, etc., by establishing a **seal** of a rotary **shaft bearing** part effectively and properly in the high speed rotation at a high temp., for example a hot rolled roll **bearing** part, preventing wear and denaturation of the sealing material and leakage of lubricating oil, and thereby enhancing the durability.

SOLUTION: A **seal** mechanism is to be fitted in a neck part between the body 2 of a roll and a **shaft**, and is composed of an elastic **seal** member 1, a fixing part 3 confronting **lip** parts 11 and 12 installed opposingly on the elastic **seal** member 1, and an inner ring 4 and taper sleeve 5 formed opposingly on the two sides of the **seal** member 1. The middle part and/or the joining end part of the **lip** parts 11 and 12 opposing so as to join with the fixing frame 3 on the two sides of the frame 3 are made in thinner wall gradually, and a groove as oil sump is formed at the forefront of the joint.

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